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June 1965

PHOTOGRAPHIC INTERPRETATION REPORT

**OAK - PART III  
MISSION 4018  
28 MAY - 1 JUNE 1965**

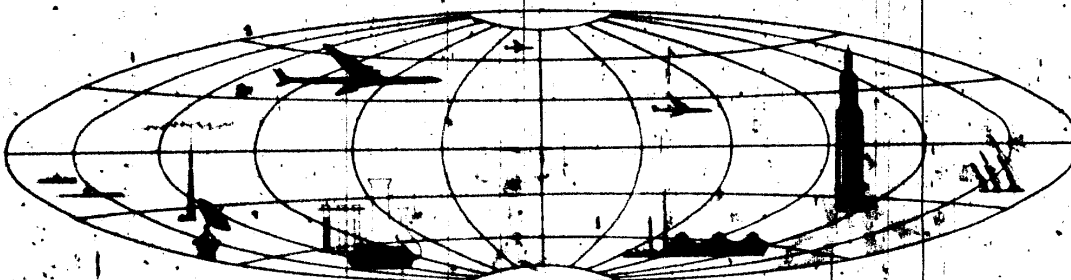


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**TOP SECRET CHESS RUFF**  
**MISSION 4018 28 MAY - 1 JUN 65**

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## OAK - PART III MISSION 4018

### PREFACE

THIS IS THE THIRD OF FOUR OAK REPORTS ON MISSION 4018 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH THE LETTER D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR FOLLOWED BY THE FRAME NUMBER AND AN INDEX NUMBER RUNNING CONSECUTIVELY FROM THE BEGINNING OF EACH PASS -- FR 4/8 FOR EXAMPLE, MEANS FRAME 4, INDEX 8. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE INDEX NUMBER TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), H (HAZE), CS (CLOUD SHADOW), HC (HEAVY CLOUD COVER), SC (SCATTERED CLOUD COVER), SD (SEMI-DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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## Highlights

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HIGHLIGHTS1. TYURATAM LAUNCH COMPLEX A

A NEW LAUNCH PAD, DESIGNATED A4, HAS BEEN IDENTIFIED. IT IS LOCATED APPROXIMATELY 400 FT EAST OF PAD A2 AND CONSISTS OF A RECTANGULAR RAIL-SERVED CONCRETE PAD.

2. TYURATAM LAUNCH COMPLEX G

CYLINDRICAL OBJECTS (MISSILES/COMPONENTS) RANGING IN SIZE FROM APPROXIMATELY 25 FT TO APPROXIMATELY 95 FT IN LENGTH ARE SEEN AT SEVERAL OF THE LAUNCH AREAS.

3. SVOBODNYI ICBM LAUNCH AREA C

A MISSILE MEASURING 95 FT IS ERECTED ON THE LEFT PAD. A SIMILAR MISSILE HAS BEEN APPARENT ON PHOTOGRAPHY SINCE JUNE 64.

4. UZHUR ICBM LAUNCH AREA H

THE AREA CAN NOW BE CONFIRMED AS A TYPE IIIC IN A MID-STAGE OF CONSTRUCTION.

5. KARTALY ICBM LAUNCH AREA H

LAUNCH AREA H IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. A LARGE ELEVATED NET HAS BEEN PLACED OVER THE EXCAVATION, HOWEVER, THE CORING AND THE EQUIPMENT ARE STILL VISIBLE THROUGH THE NETTING.

6. IMENI GASTELLO ICBM COMPLEX

A NEWLY IDENTIFIED SINGLE SILO, LAUNCH AREA H, IS LOCATED AT APPROXIMATELY 50-57N 065-59E, APPROXIMATELY 16.2 NM SW OF THE COMPLEX SUPPORT FACILITY. THE SITE IS IN AN EARLY STAGE OF CONSTRUCTION.

7. SEVERODVINSK NAVAL BASE AND SHIPYARD 402

FOR THE FIRST TIME J-CLASS SUBMARINES ARE IDENTIFIED AT THE BASE. ONE IS AT THE SOUTH QUAY AND 2 ARE AT THE

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**SOUTHEAST QUAY.**

**8. SASYKTAU MISSILE LAUNCH FACILITY**

REPORTED CONTROL BUILDING WHICH HAS BEEN EARTH-COVERED SINCE [ ] NOV 64, AND THE 3 LAUNCH POSITIONS WHICH ARE OCCUPIED ON THIS COVERAGE ARE NOW CONFIRMED AS BEING A SEGMENT OF AN SA-1 LAUNCH SITE. NINE POSSIBLE SA-1 (GUILD) MISSILES AND 1 POSSIBLE SA-1 TRANSPORTER ARE OBSERVED ON THE HARDSTAND ON OPPOSITE SIDES OF THE MISSILE CHECKOUT BUILDING LOCATED ON THE EASTERN LOOP ROAD.

**9. NARYAN-MAR AREA AIRFIELD (AIRFIELD BONUS)**

AN 8,180 X 130 FT E/W PIERCED STEEL PLANK RUNWAY IS NEWLY IDENTIFIED 3.5 NM ESE OF NARYAN-MAR.

**11. NAKHICHERAN TALL KING-AW FACILITY**

THIS TALL KING-AW FACILITY, LOCATED 8.5 NM NNW OF NAKHICHERAN, IS NEWLY IDENTIFIED AS IS AN AIR WARNING SITE 0.5 NM NORTH OF THE TALL KING SITE.

**12. ASTRAKHAN TALL KING-AD HQ FACILITY (ELECTRONICS BONUS)**

THIS TALL KING-AD FACILITY IS NEWLY IDENTIFIED AT 46-24N 047-56E, 6 NM NW OF ASTRAKHAN.

**13. YUZHNO-SAKHALINSK ELECTRONIC FACILITY (ELECTRONICS BONUS)**

NEWLY IDENTIFIED, THE FACILITY CONSISTS OF AN INTERFEROMETER-TYPE TRACKING DEVICE AND A LARGE HF RHOMBIC COMMUNICATIONS FACILITY.

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**STATUS OF COMOR TARGET READOUT**

**TWO-HUNDRED-FORTY-FIVE COMOR TARGETS WERE OBSERVED DURING THE OAK REPORTING PERIOD AND ARE CONTAINED IN THIS OAK.**

**NOTE -- PORTIONS OF SOUTH AMERICA AND MADEIRA ISLAND ARE PHOTOGRAPHED BY THIS MISSION BUT COVERAGE IS NOT DEPICTED ON THE TRACK MAPS.**

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MISSILES

YURYA ICBM LAUNCH AREA D (SITE 4)

UR 5916N 04922E

IDENTIFICATION ONLY.

YURYA ICBM LAUNCH AREA E (SITE 5)

UR 5923N 04917E

IDENTIFICATION ONLY.

YURYA ICBM LAUNCH AREA I (SITE 11)

UR 5920N 04925E

LAUNCH AREA IS COVERED ON FAIR QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE IN FACILITIES SINCE JAN 65. ONE UNIDENTIFIED LINEAR OBJECT IS VISIBLE ON THE RIGHT LAUNCH PAD. THREE VEHICLES ARE IN THE WARHEAD HANDLING FACILITY.

YURYA ICBM LAUNCH AREA K (SITE 10)

UR 5913N 04918E

LAUNCH AREA IS COVERED ON FAIR QUALITY PHOTOGRAPHY WHICH IS ONLY PARTIALLY STEREO DUE TO CLOUDS. THREE VEHICLES ARE IN THE WARHEAD HANDLING FACILITY. NO SIGNIFICANT CHANGES IN FACILITIES SINCE JAN 65.

TYURATAM LAUNCH COMPLEX A (SITES 1,15)

UR 4555N 06320E

LAUNCH COMPLEX A IS PARTIALLY COVERED ON NON-STEREO PHOTOGRAPHY. THE COMPLEX SUPPORT FACILITY AND PART OF THE INSTRUMENTATION FACILITIES ARE NOT COVERED. THERE IS NO SIGNIFICANT CHANGE AT LAUNCH PAD A1. THE BUILDING ON THE RIGHT (SOUTH) SIDE OF THE LAUNCH PAD AT PAD A2 HAS BEEN REMOVED. LAUNCH SITE A3 (SITE 15) APPEARS TO BE COMPLETE BUT NUMEROUS SMALL VEHICLES/PIECES OF EQUIPMENT CLUTTER THE AREA, AND IT DOES NOT HAVE A CLEAN, FINISHED APPEARANCE. THE SILO

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DOOR IS OPEN AND APPEARS TO BE IDENTICAL TO THOSE AT LAUNCH COMPLEX I (SITE 14) AND LAUNCH AREA B2 (SITE 16), AS WELL AS THOSE AT TYPE IIIA SITES.

A NEW LAUNCH PAD, DESIGNATED A4, HAS BEEN IDENTIFIED. IT IS LOCATED APPROXIMATELY 400 FT EAST OF PAD A2. IT CONSISTS OF A RECTANGULAR RAIL-SERVED CONCRETE PAD. THE RIGHT RAIL SERVING PAD A2 HAS BEEN EXTENDED THROUGH PAD A4, AND BEYOND IT APPROXIMATELY 1,000 FT. THE CENTER RAIL SERVING PAD A2 HAS BEEN EXTENDED AND INTERCEPTS THE RIGHT RAIL AT A POINT BEYOND PAD A4. CONSTRUCTION ACTIVITY HAS BEEN OBSERVED IN THE VICINITY OF PAD A4 SINCE [REDACTED] SEP 63. THE BUILDING FORWARD OF PAD A2 REPORTED ON [REDACTED] FEB 64 IS APPARENTLY BURIED.

(SEE ATTACHMENT)

**TYURATAM LAUNCH COMPLEX B (SITES 2,16,17) UR 4559N 06333E**

COMPLEX IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE IN THE COMPLEX SUPPORT FACILITY OR PAD B1.

CONSTRUCTION CONTINUES 1,000 FT EAST OF PAD B1. THE AREA NOW CONSISTS OF 4 BUILDINGS. THREE OF THE BUILDINGS ARE STILL UNDER CONSTRUCTION AND 1 OF THEM IS A CLERESTORY BUILDING APPROXIMATELY 270 FT IN LENGTH.

LAUNCH AREA B2 (SITE 16) IS PROBABLY COMPLETE. THE SILO DOOR IS OPEN. THE AREA HAS A CLEAN, FINISHED APPEARANCE. TWO VANS AND 4 VEHICLES ARE IN THE VICINITY OF THE SILO, AND 15 OTHER VEHICLES ARE PARKED WITHIN THE LAUNCH AREA.

LAUNCH AREA B3 (SITE 17) IS CONFIRMED AS A SOFT PAD WITH A LAUNCH STAND IN THE CENTER. NO APPARENT CHANGE IN THE LAUNCH AREA. A DOUBLE-SECURED EQUIPMENT PARK IS LOCATED ON THE SOUTH SIDE OF THE LAUNCH AREA. NUMEROUS VEHICLES ARE IN THE EQUIPMENT PARK, INCLUDING A POSSIBLE ERECTOR, 2 POSSIBLE TRANSPORTERS, AND 7 POSSIBLE FUEL/OXIDIZER TRAILERS WITH PRIME MOVER.

(SEE ATTACHMENT)

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**TYURATAM LAUNCH COMPLEX C (SITE 3)**

**UR 4558N 06339E**

THE COMPLEX IS PARTIALLY COVERED ON NON-STEREO PHOTOGRAPHY. PORTIONS OF THE COMPLEX EAST OF PAD C2 ARE NOT COVERED.

TWO RIM BUILDINGS ARE UNDER CONSTRUCTION APPROXIMATELY 1 NM WEST OF PAD C1. EIGHTEEN FUEL/OXIDIZER TRAILERS AND 14 SMALLER VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN THE SW CORNER OF THE LAUNCH AREA. AT LEAST 3 PROBABLE TRANSPORTER/ERECTORS AND 4 LONG RAIL CARS ARE LOCATED IN THE VICINITY OF THE ASSEMBLY/CHECKOUT BUILDING.

**TYURATAM LAUNCH COMPLEX F (SITE 5)**

**UR 4602N 06305E**

THE COMPLEX IS COVERED ON NON-STEREO PHOTOGRAPHY. THE LEGS OF THE ELECTRONIC FACILITY REMAIN UNEARTHED. THE LEFT SILO DOOR IS PARTIALLY OPEN. SIX VEHICLES/PIECES OF EQUIPMENT ARE PARKED ON THE APRON FORWARD OF THE RIGHT SILO.

**TYURATAM LNCH CMPLX G (SITES 7,11,12,18,19) UR 4604N 06256E**

THE COMPLEX IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY.

LAUNCH AREA G1-G2 -- NO APPARENT CHANGE IN FACILITIES. A MISSILE APPROXIMATELY 95 FT LONG IS ERECTED ON PAD G2. THREE RAIL CARS ARE ON THE RAIL SPURS TO THE REAR OF PAD G2. THE CARS ARE APPROXIMATELY 30, 45, AND 55 FT LONG.

LAUNCH AREA G3-G4 -- NO APPARENT CHANGE IN FACILITIES. THE GANTRY IS ON THE PAD AT G4. DARKNESS AND SHADOW WITHIN THE GANTRY AND OBLIQUITY PRECLUDE INTERPRETATION OF OBJECTS IN THE GANTRY, BUT IT APPEARS TO CONTAIN A CYLINDER APPROXIMATELY 80 FT HIGH AND 3 LIGHT-TONED CYLINDRICAL OBJECTS APPROXIMATELY 25 FT HIGH ARE AT ITS BASE. THESE ARE CONSIDERED TO BE MISSILE/COMPONENTS.

LAUNCH AREA G5-G6 -- NO APPARENT CHANGE IN FACILITIES. THE GANTRY IS POSITIONED ON PAD G5. AN UNIDENTIFIED

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PIECE OF EQUIPMENT APPROXIMATELY 75 FT LONG OVERALL, AND 4 SMALLER VEHICLES ARE ALSO PARKED ON THE PAD. A CYLINDRICAL OBJECT (MISSILE/COMPONENT) APPROXIMATELY 60 FT LONG IS ERECTED ON PAD G6. A POSSIBLE TRANSPORTER APPROXIMATELY 95 FT LONG OVERALL, IS PARKED APPROXIMATELY 500 FT SE OF PAD G6.

LAUNCH AREA G7 -- CONSTRUCTION CONTINUES. THE SILO IS NOT YET UP TO GROUND LEVEL. THE CONTROL BUNKER HAS BEEN PARTIALLY BACKFILLED. SMALL SILOS ARE LOCATED AT THE EXTREMITIES AND INTERSECTION OF THE LEGS OF THE ELECTRONIC FACILITY.

LAUNCH AREA G8-G9 -- NO APPARENT CHANGE IN FACILITIES. BOTH SILO DOORS ARE OPEN. TWO CIRCULAR OBJECTS ARE LYING ON EACH PAD. A TRANSPORTER APPROXIMATELY 95 FT LONG OVERALL CARRYING A CYLINDER APPROXIMATELY 60 FT LONG, AND A PIECE OF EQUIPMENT APPROXIMATELY 75 FT LONG ARE POSITIONED ON THE APRON AT G9. THE TRANSPORTER, CYLINDER AND EQUIPMENT APPEAR TO BE SIMILAR, IF NOT IDENTICAL, TO THOSE OBSERVED AT LAUNCH AREA G5-G6.

COMPLEX SUPPORT FACILITY -- NO APPARENT CHANGE IN FACILITIES. AN UNIDENTIFIED OBJECT APPROXIMATELY 105 FT LONG IS POSITIONED ON THE RAIL LINE AT THE NW END OF THE ASSEMBLY/CHECKOUT BUILDING.

THERE IS NO APPARENT CHANGE IN THE REVETTED STORAGE AREA

CONSTRUCTION CONTINUES AT THE AREA OF UNIDENTIFIED CONSTRUCTION

A HEAT/POWERPLANT AND 3 POSSIBLE VERTICAL CYLINDRICAL TANKS ARE OBSERVED.

(SEE ATTACHMENT)

TYURATAM LAUNCH COMPLEX I (SITE 14)

UR 4556N 06326E

THE COMPLEX IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY.

THE SILO IS PROBABLY COMPLETE BUT THE VICINITY IS CLUTTERED AND DOES NOT HAVE A CLEAN, FINISHED APPEARANCE. THERE APPEARS TO BE A SMALL OPEN SILO AT THE EXTREMITIES AND INTERSECTION OF THE LEGS OF THE L-SHAPED ELECTRONIC FACILITY. THE CONTROL BUNKER HAS

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BEEN BACKFILLED BUT HAS NOT BEEN EARTH COVERED.

(SEE ATTACHMENT)

**TYURATAM LAUNCH COMPLEX K (SITES 13 & 20) UR 4602N 06303E**

THE COMPLEX IS COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY.

CONSTRUCTION CONTINUES IN LAUNCH AREA K1-K2 (SITE 13) AND NEITHER SILO IS YET UP TO GROUND LEVEL. CONSTRUCTION EQUIPMENT AND VEHICLES CAN BE IDENTIFIED AT BOTH SILOS. THERE ARE 2 RING-LIKE OBJECTS ON THE PREPARED EARTHEN ACCESS ADJACENT TO K1.

THE CONTROL BUNKER AT K3 (SITE 20) HAS BEEN RE-BACKFILLED AND THE ELECTRONIC FACILITY APPEARS COMPLETE. THERE IS UNIDENTIFIED ACTIVITY, EQUIPMENT AND A RING-LIKE OBJECT IN THE IMMEDIATE VICINITY OF SILO K3. OBLIQUITY PRECLUDES DETERMINATION OF THE STATUS OF THE SILO.

**TYURATAM LAUNCH GROUP L**

**UR 4603N 06259E**

ALL SITES ARE COVERED EXCEPT SITE L8 (SITE 28). SITES L1 (SITE 29) THROUGH L7 (SITE 30) AND L10 (SITE 24) ARE COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY. SITE L9 (SITE 23) IS COVERED BY GOOD QUALITY, NON-STEREO PHOTOGRAPHY. ALL LAUNCH SITES ARE DOUBLE SECURED, AND HAVE MOUNDED EARTH LEVEL ACCESSES TO THE SILO. THE LEVEL ACCESSES ARE ORIENTED N/S. AT LAUNCH SITE L1 (SITE 29), A CONTROL BUNKER IS UNDER CONSTRUCTION ADJACENT TO THE L-SHAPED ELECTRONIC FACILITY. SMALL SILOS ARE UNDER CONSTRUCTION AT THE EXTREMITIES AND INTERSECTION OF THE LEGS OF THE ELECTRONIC FACILITY. THE SILO IS BACKFILLED BUT THE LEVEL ACCESS IS NOT PAVED. SITES L2 (SITE 27), L5 (SITE 25), L6 (SITE 26), AND L7 (SITE 30) ARE BACKFILLED EXCEPT ON ONE SIDE OF THE SILO. THE LEVEL ACCESSES ARE NOT COMPLETELY PAVED. SITES L3 (SITE 22), L4 (SITE 21), L9 (SITE 23), AND L10 (SITE 24) APPEAR TO BE COMPLETELY BACKFILLED, AND A PORTION OF THE LEVEL ACCESS HAS BEEN PAVED ON EITHER SIDE OF THE SILO.

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(SEE ATTACHMENT)

**TYURATAM MAIN SUPPORT BASE**

**UR 4538N 06317E**

**THE SUPPORT BASE IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. NO APPARENT CHANGE IN FACILITIES.**

**SVOBODNYI ICBM LAUNCH AREA A (SITE 3)**

**UR 5154N 12810E**

**LAUNCH AREA IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE OBSERVED. A LONG LINEAR OBJECT IS EVIDENT IN FRONT OF THE LEFT MISSILE READY BUILDING.**

**SVOBODNYI ICBM LAUNCH AREA B (SITE 1)**

**UR 5149N 12818E**

**LAUNCH AREA IS COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE OBSERVED.**

**SVOBODNYI ICBM LAUNCH AREA C (SITE 2)**

**UR 5152N 12823E**

**LAUNCH AREA C IS COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY. A MISSILE MEASURING 95 FT IS ERECTED ON THE LEFT PAD. A SIMILAR MISSILE HAS BEEN APPARENT ON PHOTOGRAPHY SINCE JUNE 64. SOME DETAILS OF THE ERECTING MECHANISM ARE APPARENT. A NEW SMALL EARTH-MOUNDED BUILDING IS EVIDENT ADJACENT TO THE WING BUILDING AT THE LEFT PAD. A POSSIBLE MISSILE OR A TRAILER IS EVIDENT IN FRONT OF THE LEFT MISSILE READY BUILDING.**

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**SVOBODNY ICBM LAUNCH AREA F (SITE 5) UR 5151N 12813E**

**LAUNCH AREA COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE OBSERVED.**

**SVOBODNY ICBM NUCLEAR WARHEAD STORAGE UR 5147N 12811E**

**STORAGE AREA COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE OBSERVED.**

**UZHUR ICBM LAUNCH AREA D (SITE 4) UR 5517N 08926E**

**AREA, COVERED ON POOR QUALITY, CLOUDY, STEREO PHOTOGRAPHY, CAN BE IDENTIFIED ONLY.**

**UZHUR ICBM LAUNCH AREA G (SITE 7) UR 5522N 08927E**

**AREA IS COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY. THERE IS NO SIGNIFICANT CHANGE IN THE ASSOCIATED BUILDING AREA. THE LAUNCH SITE IS FENCED AND CONTAINS 2 SMALL BUILDINGS AND 5 OTHER UNIDENTIFIED STRUCTURES. THERE IS NO EVIDENCE OF THE SILO EXCAVATION AT THIS TIME.**

**UZHUR ICBM LAUNCH AREA H (SITE 8) UR 5518N 08918E**

**THE AREA IS COVERED ON FAIR QUALITY, STEREO PHOTOGRAPHY. THIS CAN NOW BE CONFIRMED AS A TYPE IIIC IN MID-STAGE OF CONSTRUCTION. CONSTRUCTION ACTIVITY IS APPARENT WITHIN THE CORE AREA.**

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UZHUR ICBM LAUNCH AREA I (SITE 9)

UR 5513N 08920E

AREA IS COVERED ON POOR QUALITY PHOTOGRAPHY. SITE APPEARS TO BE STILL IN EARLY STAGES OF CONSTRUCTION. QUALITY OF PHOTOGRAPHY PRECLUDES DETAILED INTERPRETATION.

ZHANGIZ-TOBE ICBM LAUNCH AREA A (SITE 1) UR 4911N 08100E

AREA COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. SITE IS STILL IN A MID-STAGE OF CONSTRUCTION. THE L-SHAPED ELECTRONIC FACILITY IS STILL UNDER CONSTRUCTION WITH A CONTROL BUNKER AT THE APEX OF THE L. TWO ARCH-ROOFED BUILDINGS ARE UNDER CONSTRUCTION APPROXIMATELY 1,000 FT NORTH OF THE SILO STRUCTURE.

ZHANGIZ-TOBE ICBM LAUNCH AREA B (SITE 2) UR 4916N 08059E

AREA COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE SITE REMAINS IN A MID-STAGE OF CONSTRUCTION WITH 2 RAMPS OUT TO THE SILO STRUCTURE.

A NEWLY IDENTIFIED LINEAR OBJECT IS LOCATED ALONG THE LONG AXIS OF THE RECTANGULAR EARTH MOUND. THE OBJECT APPEARS TO BE RESTING ON A CRADLE OR PLATFORM.

ZHANGIZ-TOBE ICBM LAUNCH AREA C (SITE 3) UR 4911N 08106E

AREA COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE AT THE LAUNCH AREA. SITE REMAINS IN A MID-STAGE OF CONSTRUCTION WITH 2 RAMPS TO THE SILO STRUCTURE.

ZHANGIZ-TOBE ICBM LAUNCH AREA D (SITE 4) UR 4907N 08103E

AREA IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE. THE SITE REMAINS IN A MID-STAGE

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OF CONSTRUCTION WITH 2 RAMPS OUT TO THE SILO STRUCTURE.

ZHANGIZ-TOBE ICBM LAUNCH AREA E (SITE 5) UR 4912N 08053E

AREA COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. SITE REMAINS IN A MID-STAGE OF CONSTRUCTION. THE SILO STRUCTURE IS APPARENT AT THE BOTTOM OF THE EXCAVATION AND 2 RAMPS EXTEND OUT TO IT.

ZHANGIZ-TOBE ICBM LAUNCH AREA F (SITE 6) UR 4908N 08058E

AREA COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. SITE HAS ADVANCED TO A MID-STAGE OF CONSTRUCTION. THE SILO STRUCTURE FOOTINGS ARE APPARENT AND A LARGE RING-LIKE OBJECT, POSSIBLY SEGMENTED, IS ALONGSIDE THE EXCAVATION.

KARTALY ICBM LAUNCH AREA A (SITE 1) UR 5301N 06026E

LAUNCH AREA IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE LAUNCH SITE, IN THE MID-STAGE OF CONSTRUCTION, HAS NOW REACHED GROUND LEVEL WITH 2 RAMPS TO THE TOP OF THE SILO. THE SECOND EXCAVATION SE OF THE SITE NOW CONTAINS THE CONTROL BUNKER FOR THE L-SHAPED INTERFEROMETER.

APPROXIMATELY 1,000 FT SE OF THE SITE IS AN ARCHED-ROOF BUILDING UNDER CONSTRUCTION. APPROXIMATELY 1,200 FT NORTH OF THE SITE ARE 4 LARGE RECTANGULAR BUILDINGS AND 7 OTHER SMALLER BUILDINGS UNDER CONSTRUCTION.

KARTALY ICBM LAUNCH AREA B (SITE 2) UR 5256N 06031E

LAUNCH AREA IS COVERED ON GOOD QUALITY PHOTOGRAPHY. AN IRREGULAR-SHAPED EXCAVATION IS LOCATED APPROXIMATELY 1,200 FT SOUTH OF THE SITE. THE LAUNCH SITE IS STILL IN A MID-STAGE OF CONSTRUCTION. THE SILO STRUCTURE IS

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APPROXIMATELY AT GROUND LEVEL AND 2 RAMPS EXTEND TO IT. A T-SHAPED STRUCTURE IS APPARENT IN THE EXCAVATION BESIDE THE SILO STRUCTURE. A FAINT LINEAR CONFIGURATION IS PRESENT ON THE RECTANGULAR EARTH MOUND.

**KARTALY ICBM LAUNCH AREA C (SITE 3)**

**UR 5255N 06024E**

FAIR QUALITY, NON-STEREO PHOTOGRAPHY COVERS THE AREA. DETAILS OF THE LAUNCH SITE ARE NOT INTERPRETABLE. STATUS OF CONSTRUCTION CANNOT BE DETERMINED.

**KARTALY ICBM LAUNCH AREA D (SITE 4)**

**UR 5251N 06027E**

LAUNCH AREA IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. THE SITE IS STILL IN A MID-STAGE OF CONSTRUCTION. HEIGHT OF SILO STRUCTURE WITHIN EXCAVATION CANNOT BE DETERMINED. TWO RAMPS EXTEND TO THE SILO STRUCTURE.

**KARTALY ICBM LAUNCH AREA G (SITE 7)**

**UR 5308N 06041E**

LAUNCH AREA G IS COVERED ON FAIR QUALITY, NON-STEREO PHOTOGRAPHY. A CRANE IS NOW PRESENT AT THE SITE, OTHERWISE THERE IS NO SIGNIFICANT CHANGE

**KARTALY ICBM LAUNCH AREA H (SITE 8)**

**UR 5307N 06034E**

LAUNCH AREA H IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. A LARGE ELEVATED NET HAS BEEN PLACED OVER THE EXCAVATION. THE CORING AND THE EQUIPMENT IS STILL VISIBLE THROUGH THE NETTING. THE SITE IS NOW IN A MID-STAGE OF CONSTRUCTION WITH THE SILO UNDER CONSTRUCTION IN THE CORING. THERE ARE PILES OF UNIDENTIFIED WHITE MATERIAL APPARENTLY DUMPED IN TRUCKLOAD LOTS IN THE VICINITY OF THE EXCAVATION.

**TOP SECRET CHESS RUFF**

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(SEE ATTACHMENT)

**IMENI GASTELLO ICBM COMPLEX**

**UR 5107N 06618E**

**LAUNCH AREA G (SITE 7) IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY.**

**SITE REMAINS IN AN EARLY STAGE OF CONSTRUCTION. THE SITE CONSISTS OF A TYPICAL U-SHAPED EXCAVATION WITH A SILO CORING VISIBLE. THE ASSOCIATED BUILDINGS CONSIST OF 6 RECTANGULAR BUILDINGS, ONE T-SHAPED BUILDING, AND 2 SMALLER STRUCTURES. THE SINGLE SECURITY FENCE IS UNUSUALLY LARGE, WITH AN OUTLINE SIMILAR TO THAT OF LAUNCH AREA D.**

**A NEWLY IDENTIFIED SINGLE SILO, LAUNCH AREA H, IS LOCATED AT APPROXIMATELY 50-57N 065-59E, APPROXIMATELY 16.2 NM SW OF THE COMPLEX SUPPORT FACILITY.**

**THE SITE IS IN AN EARLY STAGE OF CONSTRUCTION AND CONSISTS OF A TYPICAL U-SHAPED EXCAVATION WITH A SILO CORING VISIBLE. THE ASSOCIATED BUILDINGS PRESENTLY CONSIST OF 2 LARGE RECTANGULAR BUILDINGS AND 1 SMALLER STRUCTURE. ACTIVITY AT LAUNCH AREA H WAS FIRST**

**IMENI GASTELLO ICBM LAUNCH AREA A (SITE 1) UR 5103N 06605E**

**LAUNCH AREA A (SITE 1) IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE SITE REMAINS IN A MID-STAGE OF CONSTRUCTION, WITH THE SILO STRUCTURE, NEAR GROUND LEVEL.**

**A NEWLY IDENTIFIED OBJECT IS LOCATED ALONG THE LONG AXIS OF THE EARTHEN RECTANGLE. THIS OBJECT MEASURES APPROXIMATELY 110 X 10 FT AND APPEARS TO BE RESTING ON A CRADLE OR PLATFORM.**

**A NEWLY IDENTIFIED SHALLOW RECTANGULAR EXCAVATION IS LOCATED APPROXIMATELY 350 FT EAST OF THE SILO. IT APPEARS TO BE CONNECTED BY TRENCHING OR CONDUIT TO A**

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RECTANGULAR BUILDING WHICH IS APPROXIMATELY 150 FT EAST OF THE SILO STRUCTURE. A NEWLY IDENTIFIED SECOND SHALLOW SQUARE EXCAVATION IS APPROXIMATELY 500 FT NW OF THE SILO. A SMALL T-SHAPED STRUCTURE IS LOCATED WITHIN THE SILO EXCAVATION AND IS IMMEDIATELY ADJACENT TO THE EAST SIDE OF THE SILO STRUCTURE.

(SEE ATTACHMENT)

**IMENI GASTELLO ICBM LAUNCH AREA B (SITE 2) UR 5106N 06600E**

LAUNCH AREA B (SITE 2) IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE SITE REMAINS IN THE MID-STAGE OF CONSTRUCTION. UNIDENTIFIED ACTIVITY IS APPARENT ON THE GRADED EARTH MOUND NW OF THE SILO EXCAVATION. ON THE EARTHEN RAMP, ALONGSIDE THE UNIDENTIFIED ACTIVITY, ARE 3 UNIDENTIFIED LONG LINEAR OBJECTS. A FOURTH UNIDENTIFIED OBJECT, OF THE SAME GENERAL CONFIGURATION, IS LOCATED IMMEDIATELY NORTH OF THE SILO EXCAVATION AND IS APPARENTLY BEING TOWED BY A SMALL TRACTOR-LIKE DEVICE.

**IMENI GASTELLO ICBM LAUNCH AREA C (SITE 3) UR 5110N 06604E**

LAUNCH AREA C (SITE 3) IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE SITE REMAINS IN A MID-STAGE OF CONSTRUCTION. A NEWLY IDENTIFIED PROMINENT TRENCH EXTENDS FROM THE EAST SIDE OF THE SILO EXCAVATION AND ANGLES IN A SOUTHERLY DIRECTION TO A POINT SW OF THE SILO EXCAVATION.

**IMENI GASTELLO ICBM LAUNCH AREA D (SITE 4) UR 5107N 06611E**

LAUNCH AREA D (SITE 4) IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. THE SITE REMAINS IN A MID-STAGE OF CONSTRUCTION, WITH THE SILO STRUCTURE APPARENTLY NEAR GROUND LEVEL. A NEWLY IDENTIFIED OBJECT IS LOCATED ALONG THE LONG AXIS OF THE EARTHEN RECTANGLE. THIS OBJECT MEASURES APPROXIMATELY 110 X 10 FT AND APPEARS TO BE RESTING ON A CRADLE OR PLATFORM.

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A CONFIRMED L-SHAPED ELECTRONIC FACILITY IS NOW APPARENT. CONSTRUCTION CONTINUES ON THE CONTROL BUNKER AT THE APEX OF THE LEGS OF THE ELECTRONIC FACILITY. A NEWLY IDENTIFIED NETWORK OF INTERCONNECTING TRENCHES IS APPARENT WEST OF THE SILO EXCAVATION.

(SEE ATTACHMENT)

IMENI GASTELLO ICBM LAUNCH AREA E (SITE 5) UR 5114N 06611E

THE LAUNCH AREA IS COVERED ON FAIR QUALITY STEREO PHOTOGRAPHY. SITE REMAINS IN A MID-STAGE OF CONSTRUCTION WITH THE SILO STRUCTURE NEAR GROUND LEVEL.

A NEWLY IDENTIFIED OBJECT, SIMILAR IN CONFIGURATION TO THOSE REPORTED AT LAUNCH AREAS A AND D, IS LOCATED ON THE NW SIDE OF THE SILO EXCAVATION. PROMINENT TRENCHING IS OBSERVED EAST OF THE SILO EXCAVATION.

IMENI GASTELLO ICBM LAUNCH AREA F (SITE 6) UR 5113N 06605E

LAUNCH AREA F IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. SITE REMAINS IN A MID-STAGE OF CONSTRUCTION. ONE LARGE RECTANGULAR BUILDING, 1 SMALL RECTANGULAR BUILDING, AND 6 SMALLER STRUCTURES ARE NOW APPARENT IN THE IMMEDIATE VICINITY OF THE SILO EXCAVATION. ASSOCIATED BUILDINGS CONSIST OF 8 RECTANGULAR BUILDINGS, 1 T-SHAPED BUILDING, AND 4 SMALLER STRUCTURES.

SARY-SHAGAN SITE 13

UR 4635N 07432E

SITE 13 IS COVERED ON VERY GOOD QUALITY, STEREO PHOTOGRAPHY (THE BEST TO DATE) AND REVEALS CONTINUING CONSTRUCTION ON THE DUAL HEN HOUSE-TYPE STRUCTURES, BUT NO APPARENT PROGRESS ON THE BUILDING TRIAD.

THE BUILDING TRIAD CONSISTS OF THE 3 MAIN TRIAD BUILDINGS, THE UNIDENTIFIED BUILDING PARALLELING, AND ADJACENT TO, THE LARGE TRIAD BUILDING, AND 8 VERY SMALL

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STRUCTURES OF VARIOUS SIZES. THE LARGE TRIAD BUILDING APPEARS EXTERNALLY COMPLETE. A PEDESTAL OR MOUNT, PROBABLY FOR ELECTRONIC EQUIPMENT, IS ON THE ROOF. NO ANTENNA IS OBSERVED. THE 2 SMALL TRIAD BUILDINGS APPEAR EXTERNALLY COMPLETE. EACH HAS A POSSIBLE ACCESS STRUCTURE ON THE ROOF. TWO OF THE 8 VERY SMALL STRUCTURES ARE PROBABLY COOLING UNITS, THE REMAINING ARE UNIDENTIFIED.

THE CENTRAL CONTROL BUILDING, ANTENNA BUILDINGS, AND TERMINAL BUILDINGS AT OPERATIONS AREA A REMAIN UNCHANGED. THE BLACK-TONED FACE OF THE NORTHERN ANTENNA BUILDING IS VISIBLE WHILE THE FACE OF THE SOUTHERN ANTENNA BUILDING IS NOT, INDICATING A DIFFERENCE IN SLOPE OF THE 2 FACES. CONSTRUCTION MATERIAL, INCLUDING A NUMBER OF PROBABLE CRATES, IS SITUATED WEST OF THIS OPERATIONS AREA. A SIGNIFICANT INCREASE IN THE AMOUNT AND A SHIFTING OF THE CONSTRUCTION MATERIALS HAVE OCCURRED HERE SINCE [REDACTED] NOV 64. HOWEVER, THEY REMAIN VIRTUALLY UNCHANGED SINCE [REDACTED] MAR 65.

THE CENTRAL CONTROL BUILDING AT OPERATIONS AREA B IS, WITH THE EXCEPTION OF WATER PROOFING OF A SMALL PORTION OF THE ROOF, EXTERNALLY COMPLETE. AT THE SITE OF BOTH LINEAR STRUCTURES, THERE ARE 3 ROWS OF 41 FOOTINGS, EACH WITH BACKFILL IN PLACE. A FOURTH ROW OF 41 FOOTINGS IS NOTED JUST EAST OF THE 3 ROWS. UNIDENTIFIED ACTIVITY IS OBSERVED BETWEEN THE 2 INNER ROWS. THE TERMINAL BUILDINGS FOR BOTH ANTENNA BUILDINGS ARE PRESENT.

THE CENTRAL CONTROL BUILDING AT OPERATIONS AREA C IS NEARING EXTERNAL COMPLETION. WATER PROOFING OF THE ROOF IS IN PROGRESS. AT THE SITE OF BOTH LINEAR STRUCTURES THERE ARE 3 ROWS OF 41 FOOTINGS EACH WITH BACKFILL IN PLACE. WEST OF THESE 3 ROWS IS A FOURTH ROW OF 41 FOOTINGS OR PIERS. UNIDENTIFIED ACTIVITY IS OBSERVED BETWEEN THE 2 INNER ROWS. BOTH TERMINAL BUILDINGS ARE NEARING COMPLETION. CONSTRUCTION MATERIALS ARE SCATTERED AT RANDOM IN A CLEARING JUST WEST OF THE CONTROL BUILDING. ONE CRANE AND 4 PROBABLE CONSTRUCTION SHEDS ARE OBSERVED IN OPERATIONS AREA C.

THERE HAS BEEN CONSIDERABLE CONSTRUCTION PROGRESS AT OPERATIONS AREA D SINCE [REDACTED] MAR 65. FOOTINGS AND FOUNDATION WORK FOR THE CENTRAL CONTROL BUILDING HAVE BEEN COMPLETED, VERTICAL STRUCTURAL MEMBERS INSTALLED, AND CONSTRUCTION OF WALLS ON 3 SIDES OF THE

TOP SECRET CHESS RUFF

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25X125X1  
25X1  
25X1

25X1

25X1

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BUILDING STARTED. CONSIDERABLE POSSIBLE CONSTRUCTION MATERIAL AND 2 CRANES ARE LOCATED IN AND AROUND THE CONTROL BUILDING. THE SOUTH LINEAR STRUCTURE CONSISTS OF 2 ROWS OF FOOTINGS WITH BACKFILL IN PLACE. THE FOOTINGS IN THE WESTERNMOST ROW ARE STILL IN THEIR CONCRETE FORMS. THE FOUNDATION FOR THE TERMINAL BUILDING IS PRESENT AND A CRANE IS IN THE APPROXIMATE CENTER OF THE LINEAR EXCAVATION. AT THE NORTH LINEAR STRUCTURE, THE 2 WESTERNMOST ROWS OF FOOTINGS APPEAR TO BE IN PLACE AND POSSIBLE BACKFILLING IS IN PROGRESS. THE EASTERNMOST ROW OF FOOTINGS IS APPROXIMATELY 50 PERCENT COMPLETE AND THE CONCRETE FORMS HAVE YET TO BE REMOVED. THE CONCRETE FORMS HAVE YET TO BE REMOVED AT THE FOURTH ROW OF FOOTINGS OR PIERS TO THE WEST OF THIS LINEAR STRUCTURE. ONE CRANE IS SITUATED IN THE LINEAR EXCAVATION. ALSO PRESENT AT THIS DUAL STRUCTURE ARE 8 PROBABLE CONSTRUCTION SHACKS. CONSTRUCTION MATERIALS ARE SCATTERED AT RANDOM JUST OUTSIDE THE SECURITY LINE WEST OF THE LINEAR STRUCTURES.

INSTALLATION OF ELECTRICAL EQUIPMENT IN THE TRANSFORMER SUBSTATION CONTINUES, INCLUDING ONE 110 KV STEPDOWN TRANSFORMER AND PROVISION FOR 2 INCOMING 110 KV CIRCUITS.

ADDITIONAL SCARRING AND TRAILS ARE OBSERVED AT THE LINEAR SCAR APPROXIMATELY 4,100 FT SW OF THE TRANSFORMER SUBSTATION SINCE LAST CLEAR COVERAGE ON [REDACTED] NOV 64, BUT IT REMAINS APPROXIMATELY 4,375 FT IN LENGTH AND UNIDENTIFIED IN PURPOSE.

GROUND SCARS INDICATING NEW UTILITY LINES HAVE APPEARED, SINCE [REDACTED] NOV 64, AT THE SITE. THERE HAS BEEN NO SIGNIFICANT CHANGE IN THE SUPPORT AREAS SINCE [REDACTED] MAR 65.

(SEE ATTACHMENT)

MOSCOW GM PLT & EXPMT STN KALININGRAD 88 UR 5555N 03748E

TWENTY PERCENT OF FACILITY COVERED BY SCATTERED CLOUDS. NO APPARENT CHANGE AT ANY OF THE 3 PLANT SECTIONS SINCE [REDACTED] FEB-MAR 65. CONSTRUCTION ACTIVITY CONTINUES NEAR THE PROBABLE NII 88 AREA. NINE RAIL CARS APPROXIMATELY 75 FT LONG OBSERVED AT PLANT 88 AREA.

TOP SECRET CHESS RUFF

25X1  
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**TOP SECRET CHESS RUFF**

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**UFA AIRCRAFT ENGINE PLANT B-26**

**UR 5447N 05604E**

FOOTINGS FOR A NEW RECTANGULAR BUILDING ARE EVIDENT NORTH OF THE ENGINE TEST CELL BUILDING. ALSO NEW IS A ROW OF 6 PARALLEL CYLINDERS EXTENDING FROM THE EASTERN END OF THE TEST CELL BUILDING. THE CYLINDERS MAY REPRESENT A NEW TYPE OF TEST CELL EXHAUST/MUFFLER. NO MISSILES, MISSILE COMPONENTS OR LARGE RAIL CARS OBSERVED. INSTALLATION IS COMPLETELY COVERED ON GOOD QUALITY, VERTICAL, STEREO PHOTOGRAPHY.

**ZAPOROZHYE AIRCRAFT ENGINE PLANT 478**

**UR 4749N 03511E**

FIVE NEW L-TYPE TEST CELLS ARE BEING ADDED TO THE MAIN ENGINE TEST AND ASSEMBLY BUILDING. NO MISSILES, MISSILE COMPONENTS OR LARGE RAIL CARS OBSERVED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY.

**NOVOSIBIRSK AIRFRAME PLANT CHKALOV 153**

**UR 5504N 08259E**

**NORTH EDGE OF NOVOSIBIRSK.**

RAIL-SERVED PLANT CONTAINS 2 FINAL ASSEMBLY HALLS, WORKSHOPS, MACHINE SHOPS, REPAIR AND CHECKOUT HANGARS, A STEAMPLANT AND OTHER SUPPORT BUILDINGS. THE NEW WORKSHOP/MACHINE SHOP BUILDING REPORTED AS UNDER CONSTRUCTION JUN 64 IS NOW COMPLETE. NO NEW CONSTRUCTION OBSERVED. NO MISSILES, MISSILE COMPONENTS, OR LARGE RAIL CARS OBSERVED. STEREO COVERAGE IS COMPLETE.

ONE CLEAT FUSELAGE AND 2 POSSIBLE FLASHLIGHT-TYPE FUSELAGES OBSERVED WITHIN PLANT AREA.

AIRCRAFT AT THE FLY-AWAY FIELD -- 1 BEAR, 1 BEAGLE, 1 FISHPOT, 8 FLASHLIGHT-TYPE, 1 PROBABLE FLASHLIGHT-TYPE, 2 CAMP, AND 2 CAB.

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**BIYSK ROCKET MOTOR TEST FACILITY**

**UR 5229N 08507E**

ENTIRE INSTALLATION COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY. OBLIQUITY PERMITS VIEWING OF MANY ASPECTS NOT PREVIOUSLY OBSERVED.

TEST ACTIVITY INCLUDES A SLIGHT DISCOLORATION ON THE PAD BETWEEN TEST CELL NO 2 [REDACTED] FEB 65) AND THE BLAST DEFLECTOR. A SMALL SMOKE CLOUD OVERHANGING THE TEST CELL FURTHER INDICATES THE LIKELIHOOD OF A RECENT TEST. THE SINGLE TEST POSITION 8,800 FT NW OF THE SITE HAS A SLIGHT DISCOLORATION DIRECTED FROM THE REVETMENT TOWARD THE CLIFF TO THE NE. ADDITIONS TO THE FACILITY SINCE [REDACTED] MAR 65 ARE LOCATED IN THE VICINITY OF THE OFFSET BUILDINGS AND INCLUDE 4 BUILDINGS UNDER CONSTRUCTION, EXCAVATIONS FOR 2 OTHERS AND A NEW BUNKER.

(SEE ATTACHMENT)

**QIRYAT YAM ROCKET ENGINE R & D CENTER IS 3250N 03505E**

NO ROCKET ENGINE TEST FACILITIES IDENTIFIED ON GOOD QUALITY, OBLIQUE, CLEAR, STEREO PHOTOGRAPHY.

**SEVERODVINSK NAVAL BASE AND SHIPYARD 402 UR 6434N 03949E**

FACILITIES ON SOUTH SIDE OF NIKOLSKOYE ESTUARY INCLUDE 2 CONSTRUCTION HALLS, 17 FABRICATION-TYPE BUILDINGS, 13 PROBABLE WAREHOUSES, 3 OPEN STORAGE AREAS, 2 ADMINISTRATION BUILDINGS, A LARGE POWERPLANT, 1 WET DOCK-TYPE LAUNCHING BASIN, AND 1 DIRECT SIDE-LAUNCHING SYSTEM WITH SHELTERED BASIN. YARD IS WELL SERVED BY RAIL AND STEAM LINES. NEARLY ALL SHORE LINE IN ENTIRE HARBOR IS QUAYED. MOUTH OF HARBOR IS BEING NARROWED BY FILLING.

A NEW AREA ON THE NORTH SIDE CONTAINS 1 WET DOCK, 1 TRAVERSER, REPAIR WAYS, 2 PROBABLE POL STORAGE TANKS, AND 3 PROBABLE FABRICATION-TYPE BUILDINGS, ALL UNDER CONSTRUCTION. COMPLETED FACILITIES INCLUDE 7 FABRICATION BUILDINGS, APPROXIMATELY 13 MISCELLANEOUS BUILDINGS, A BARRACKS AREA WITH 54 BARRACKS PLUS 5

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25X1

UNDER CONSTRUCTION, AN OPEN STORAGE AREA, AND A SMALL AUXILLIARY STEAMPLANT. THIS AREA IS WELL SERVED BY RAIL AND BY STEAM FROM MAIN POWERPLANT ON SOUTH SIDE.

SEPARATELY SECURED FACILITIES AT WESTERN TIP OF YAGRY ISLAND INCLUDE 3 PIERS, 1 QUAY, 1 LARGE FABRICATION-TYPE BUILDING, 13 ASSOCIATED BUILDINGS INCLUDING A SMALL AUXILLIARY STEAMPLANT AND STORAGE BUILDINGS, AND A PARTIAL BUILDING COVERING 4 OF THE PREVIOUSLY REPORTED 8 VERTICAL STORAGE TANKS. THE 4 VISIBLE TANKS ARE UNDER CONSTRUCTION.

VESSELS -- AT SOUTH QUAY -- 3 E-II-CLASS SSGN, 1 E-CLASS SSGN IN FLOATING DOCK, 1 N-CLASS SSN, AN UNIDENTIFIED OBJECT ON CRADLE (300 FT LOA), 1 TARGET BARGE (355 FT LOA), 1 KYNDA-CLASS DLG, AND 1 J-CLASS SSG. AT SOUTHEAST QUAY -- 2 J-CLASS SSG. AT YAGRY ISLAND NAVAL BASE -- 2 RIGA-CLASS DE, 1 BOLVA-CLASS APL, 1 E-II-CLASS SSGN, 1 N-II-CLASS SSN WITH SHACK ABAFT SAIL (BOTH E-II AND N-II ARE TIED UP ALONG SIDE BARGES AT QUAY). AT REPAIR FACILITY YAGRY ISLAND -- 1 RIGA-CLASS DE, 1 G-CLASS SSB, 1 UNIDENTIFIED AO, 1 TRANSPORTER DOCK 345 FT LOA (OCCUPIED BY SMALL SURFACE VESSEL), AND 1 LARGE FLOATING DOCK OCCUPIED BY H-CLASS SSBN WITH POSSIBLY MODIFIED MISSILE SYSTEM. SEVERAL YARD AND SERVICE VESSELS ARE PRESENT THROUGHOUT YARD AND NAVAL BASE.

(SEE ATTACHMENT)

25X1

VLADIVOSTOK SUBMARINE BASE ULISA BAY

UR 4304N 13155E

25X1

FACILITIES INCLUDE 6 PIERS, 2 PONTOONS, A SIDE-LAUNCHING SYSTEM (ASSOCIATED WITH SMALL SHIPYARD), AND A T-HEAD POL PIER. AN ANTI-SUBMARINE NET IS LOCATED ACROSS THE MOUTH OF THE BAY.

VESSELS -- 5 OSA-CLASS PTFG, 5 OSA-CLASS PTFG UNDER CONSTRUCTION, 5 W-CLASS SS, 5 M-V-CLASS OSS, AND 1 DON-CLASS AS AT SUBMARINE BASE AND 7 OSA-CLASS PTFG, 7 KOMAR-CLASS PTG, 10 P-6-CLASS PT, 3 P-4-CLASS PT, AND 1 SKORYY-CLASS DD (STRIPPED) AT MTB BASE.

25X1

TOP SECRET CHESS RUFF

25X1

## TOP SECRET CHESS RUFF

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VLADIVOSTOK NAVAL BASE AND SHIPYARD 202 UR 4306N 13156E

NO NEW CONSTRUCTION OR CHANGES IN FACILITIES OBSERVED  
ON CLEAR, GOOD QUALITY PHOTOGRAPHY.

VESSELS -- 1 SVERDLOV-CLASS CL (IN GRAVING DOCK), 2  
G-CLASS SSB, 1 POSSIBLE G-CLASS SSB, 1 POSSIBLE  
LONGBIN-CLASS SSG (IN GRAVING DOCK), 3 W-CLASS SS, 2  
F/Z-CLASS SS, 1 PROBABLE L-III-CLASS OSS, 1 ATREK-CLASS  
ASL, 1 MODIFIED KOTLIN-CLASS DD, 4 SKORYY-CLASS DD (2  
STRIPPED), 2 P-6-CLASS PT, 1 T-43-CLASS MSF, 2  
RIGA-CLASS DE, 2 PETYA-CLASS PCE, 8 UNIDENTIFIED  
AUXILIARIES, 12 PASSENGER VESSELS, 72 CARGO VESSELS (2  
UNDER CONSTRUCTION, 2 IN GRAVING DOCK, AND 1 IN  
FLOATING DOCK), 22 OILERS, 7 FLOATING DOCKS, 4 FLOATING  
CRANES, 12 TUGS, AND NUMEROUS HARBOR SERVICE CRAFT IN  
GOLDEN HORN BAY. THREE T-43-CLASS MSF (2 IN FLOATING  
DOCK), 2 SHCH-IV-CLASS OSS, 1 PROBABLE P-6-CLASS PT, 1  
PROBABLE T-43-CLASS AGRL, 1 PROBABLE S.O.-1 CLASS SC,  
AND NUMEROUS YARD AND SERVICE CRAFT IN BUKHTA DIOMID.  
ONE SVERDLOV-CLASS CL, 1 OSA-CLASS PTFG, 1  
KRUPNYY-CLASS DDGS, 4 MODIFIED KOTLIN-CLASS DD, 14  
MP-4-CLASS LSC, 3 KOTLIN-CLASS DD, 7 T-58-CLASS MSF, 1  
T-43-CLASS MSF, 1 RIGA-CLASS DE, 4 KRONSTADT-CLASS PC  
AND 2 POSSIBLE VANYA-CLASS MSI IN BUKHTA NOVIK AND  
ENVIRONS.

LENINGRAD NORTHWEST AMM/SAM LAUNCH COMPLEX UR 6027N 02944E

PORTIONS OF THE NORTHWEST COMPLEX ARE OBSERVED ON GOOD  
QUALITY, STEREO PHOTOGRAPHY WITH SCATTERED-TO-HEAVY  
CLOUDS AND CLOUD SHADOW IN SOME AREAS. VISIBLE  
PORTIONS OF THE COMPLEX INCLUDE THE COMPLEX CONTROL  
CENTER AND VICINITY, ELEVATED STRUCTURES AT THE  
OUTRIGGER POSITIONS NE AND SW OF THE CONTROL CENTER,  
SUPPORT AND BARRACKS AREAS, VEHICLE PARK, LAUNCH SITE A  
AND SMALL SEGMENTS OF SITES B, C AND D, AND  
APPROXIMATELY ONE THIRD OF THE ELECTRONIC SITE AT THE  
SE CORNER OF THE COMPLEX.

THERE IS NO APPARENT CHANGE IN THE STATUS OF THE  
STRUCTURES AT THE OUTRIGGER POSITIONS SINCE THE AREA  
WAS VIEWED ON PHOTOGRAPHY OF COMPARABLE SCALE IN MAY 64  
TOP SECTIONS APPEAR TO HAVE BEEN  
REMOVED FROM NEARLY ONE-HALF OF THE CONDUIT PREVIOUSLY  
OBSERVED LEADING FROM THE CONTROL CENTER TO THE SW

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**TOP SECRET CHESS RUFF**

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STRUCTURE AND FROM A SMALLER SECTION OF THE CONDUIT  
EXTENDING TOWARD THE NE STRUCTURE.

GROUND SCARS ORIGINATING IN THE VICINITY OF THE CONTROL  
CENTER EXTEND TO THE NW AND NE. THESE SCARS WERE NOT  
PRESENT IN MAY 64, NOT DISCERNIBLE ON SMALLER SCALE  
PHOTOGRAPHY [REDACTED] OCT 64), AND WERE PRESENT ON  
[REDACTED] MAY 65.

EARTH SCARRING, APPARENTLY NEW SINCE [REDACTED]  
[REDACTED] IS LOCATED MIDWAY BETWEEN THE CONTROL CENTER AND  
THE VEHICLE PARK.

TWELVE OF THE 60 VEHICLES/PIECES OF EQUIPMENT OBSERVED  
IN THE VEHICLE PARK ON [REDACTED] MAR 65 ARE GONE.

NONE OF THE LAUNCH SITES ARE OBSERVED ON STEREO  
COVERAGE. LAUNCH SITE A IS VISIBLE IN CLOUD SHADOW.  
EARTH MOUNDING OF THE SITE CONTROL BUILDING IS NOW  
CONFIRMED. PRESENCE OF ERECTOR/LAUNCHERS CANNOT BE  
CONFIRMED AT THE LAUNCH POINTS OF SITE A ON CURRENT  
PHOTOGRAPHY.

VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED ON THE  
PERIMETER ROAD ADJACENT TO THE MISSILE READY BUILDING  
AT LAUNCH POSITION B-6, THE ONLY POSITION VISIBLE AT  
SITE B.

NO SIGNIFICANT CHANGE IS OBSERVED IN SEGMENTS OF LAUNCH  
SITES C AND D VISIBLE IN CLOUD-FREE AREAS.

MOUNDED POSITIONS 1 AND 3 AND THE CENTRALLY LOCATED  
REVERTED POSITION ARE DISCERNIBLE AT THE ELECTRONIC  
SITE AND REMAIN OCCUPIED. SEVERAL DARK IMAGES ON THE  
MOUND AND ACCESS ROAD TO POSITION 3 CANNOT BE  
IDENTIFIED AS VEHICLES/PIECES OF EQUIPMENT ON THIS  
PHOTOGRAPHY. A GROUND SCAR, NOT PREVIOUSLY OBSERVED,  
EXTENDS SOUTH FROM POSITION 3 OF THE ELECTRONIC SITE  
AND TERMINATES AT A GENERALLY SQUARE AREA OF DISTURBED  
EARTH BEYOND THE SITE SECURITY FENCING.

SEVERAL MISCELLANEOUS VEHICLES/PIECES OF EQUIPMENT ARE  
PARKED IN THE VICINITY OF THE LARGEST BUILDING IN THE  
COMPLEX SUPPORT AREA.

**TOP SECRET CHESS RUFF**

25X1  
25X1


25X1  
25X1


25X1  
25X1

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25X1

**TOP SECRET CHESH RUFF****MISSION 4018 28 MAY - 1 JUN 65****SASYKTAU MISSILE LAUNCH FACILITY****UR 4732N 04925E**

FACILITY COVERED ON NON-STEREO PHOTOGRAPHY WITH HAZE LIMITING INTERPRETATION. THE PREVIOUSLY REPORTED CONTROL BUILDING WHICH HAS BEEN EARTH-COVERED SINCE  NOV 64, AND THE 3 LAUNCH POSITIONS WHICH ARE OCCUPIED ON THIS COVERAGE ARE NOW CONFIRMED AS BEING A SEGMENT OF AN SA-1 LAUNCH SITE. PROBABLE GUARD TOWERS ARE NOW DISCERNIBLE AT THE 4 CORNERS OF THE SECURITY FENCE ENCOMPASSING THE LAUNCH AREA. NINE POSSIBLE SA-1 (GUILD) MISSILES AND 1 POSSIBLE SA-1 TRANSPORTER ARE OBSERVED ON THE HARDSTAND ON OPPOSITE SIDES OF THE MISSILE CHECKOUT BUILDING LOCATED ON THE EASTERN LOOP ROAD. THIRTEEN OTHER VEHICLES/PIECES OF EQUIPMENT ARE POSITIONED ON OR ADJACENT TO THE LOOP ROAD. ON THE OPPOSITE SIDE OF THE LOOP, EAST OF THE MISSILE CHECKOUT BUILDING, A 20- X 20-FT BUILDING HAS BEEN REVETTED ON 2 SIDES. A 2,900- X 205-FT DIRT AIR STRIP HAS NOW BEEN IDENTIFIED APPROXIMATELY 1 NM SW OF THE LAUNCH POSITIONS. REVIEW OF EARLIER COVERAGES REVEALS THAT THE STRIP WAS PRESENT IN NOV 64, BUT WAS NOT CLEARLY DEFINED. ONE COLT/CREEK IS OBSERVED ADJACENT TO THE EAST END OF THE STRIP. NO ELECTRONIC EQUIPMENT DISCERNIBLE THROUGHOUT THE LAUNCH FACILITY.

(SEE ATTACHMENT)



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**TOP SECRET CHESH RUFF**

**Air  
Facilities**

TOP SECRET CHESS RUFF

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AIR FACILITIES

TIKSI AIRFIELD

UR 7141N 12853E

NO NEW CONSTRUCTION OR CHANGE IN FACILITIES OBSERVED ON GOOD QUALITY PHOTOGRAPHY. ONLY SMALL PORTIONS OF AIRFIELD OBSERVED THROUGH SCATTERED CLOUDS.

AIRCRAFT -- 2 FARMER, 2 PROBABLE FLASHLIGHT/FIREBAR, 4 PROBABLE FLASHLIGHT, 7 UNIDENTIFIED SWEEP-WING FIGHTERS, 1 COOT, 9 CAT/CUB, 6 CAB, 2 CRATE, 1 COACH, 5 POSSIBLE COLT, AND 1 HOUND OBSERVED THROUGH SCATTERED CLOUDS AND CLOUD SHADOW.

VORKUTA AIRFIELD EAST

UR 6727N 06415E

NO CHANGES OR NEW CONSTRUCTION OBSERVED ON CLEAR, GOOD QUALITY STEREO PHOTOGRAPHY.

AIRCRAFT -- NONE OBSERVED.

NORILSK AIRFIELD NORTHWEST

UR 6923N 08748E

IDENTIFICATION ONLY.

TIKSI AIRFIELD WEST

UR 7141N 12842E

ONLY NORTHEASTERN EDGE OF RUNWAY OBSERVED THROUGH HEAVY CLOUDS AND CLOUD SHADOW ON GOOD QUALITY, STEREO PHOTOGRAPHY.

AIRCRAFT -- NONE OBSERVED.

KOMSOMOLSK AIRFRAME PLT ORDZHONIKIDZE 126 UR 5036N 13705E

CONSTRUCTION CONTINUES ON A LARGE SUBASSEMBLY BUILDING EAST OF THE LARGE PRODUCTION BUILDING. NO OTHER

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1



**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**SIGNIFICANT CHANGES NOTED. ENTIRE PLANT COVERED BY GOOD STEREO PHOTOGRAPHY.**

**AIRCRAFT -- 36 FITTER, 75 FAGOT/FRESCO, 2 HOUND, 2 COLT, 2 CREEK, AND 3 CAB.**

**HSU-CHOU AIRFIELD SOUTHEAST**

**CH 3413N 11715E**

**NO NEW CONSTRUCTION ACTIVITY OBSERVED. PREVIOUSLY REPORTED TOKEN RADAR 1 NM SOUTH OF AIRFIELD NOT OBSERVED ON GOOD QUALITY, CLEAR PHOTOGRAPHY.**

**AIRCRAFT -- 2 BEAGLE, 39 FAGOT/FRESCO, 1 CAB, AND 7 MAX.**

**LU-CHIAO AIRFIELD**

**CH 2834N 12125E**

**NO NEW CONSTRUCTION ACTIVITY OR CHANGES IN FACILITIES OBSERVED ON GOOD QUALITY PHOTOGRAPHY.**

**AIRCRAFT -- 2 BAT, 11 FRESCO, AND 2 FAGOT/FRESCO.**

**NAN-CHANG AIRFIELD NEW**

**CH 2838N 11555E**

**NO CHANGE IN FACILITIES OBSERVED. NO CONSTRUCTION ACTIVITY OBSERVED AT THE AIRCRAFT ASSEMBLY PLANT ON GOOD QUALITY PHOTOGRAPHY.**

**AIRCRAFT -- 1 CRATE, 1 CAB, 8 COLT, AND 14 MAX/MOOSE.**

**FU-CHOU/NAN-TAI AIRFIELD**

**CH 2600N 11919E**

**NO APPARENT CHANGE IN FACILITIES ON GOOD QUALITY PHOTOGRAPHY.**

**AIRCRAFT -- 3 PROBABLE FARMER, 1 POSSIBLE FARMER, 22 FAGOT/FRESCO, AND 17 BEAST.**

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**PANG-FOU AIRFIELD**

**CH 3256N 11722E**

**NO NEW CONSTRUCTION ACTIVITY OR CHANGE IN FACILITIES  
OBSERVED ON GOOD QUALITY, CLEAR PHOTOGRAPHY.**

**AIRCRAFT -- 3 FRESCO, 3 FAGOT/FRESCO, 3 MAX, 16 MOOSE,  
AND 4 MAX/MOOSE.**

**WOLTER MONGONSI DI AIRFIELD**

**ID 0405S 12225E**

**NO CHANGES OBSERVED ON GOOD-QUALITY PHOTOGRAPHY IN  
CLOUD-FREE AREAS.**

**AIRCRAFT -- NONE OBSERVED.**

**TUBAN AIRFIELD**

**ID 0845S 11510E**

**NO CHANGE IN FACILITIES OBSERVED ON GOOD QUALITY, CLEAR  
PHOTOGRAPHY. CONSTRUCTION CONTINUES ON RUNWAY  
EXTENSION AND PARALLEL TAXIWAY.**

**AIRCRAFT -- 1 C-131 AND 1 HOUND.**

**SAMTREDIA AIRFIELD EAST**

**UR 4210N 04228E**

**NO CONSTRUCTION OR CHANGES IN FACILITIES OBSERVED ON  
GOOD QUALITY, CLEAR PHOTOGRAPHY.**

**AIRCRAFT -- 43 BEAGLE, 1 PROBABLY DERELICT BEAGLE, 16  
FISHPOT, 2 PROBABLE FISHPOT, 9 FLASHLIGHT-TYPE, 11  
FAGOT/FRESCO, 1 CAMEL, AND 2 CAB.**

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**KECSKEMET AIRFIELD**

**HU 4655N 01945E**

**NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.**

**AIRCRAFT -- 1 BEAGLE.**

**BUDAPEST/TOKOL AIRFIELD**

**HU 4721N 01859E**

**NO NEW CONSTRUCTION OR CHANGES OBSERVED ON FAIR QUALITY, OBLIQUE PHOTOGRAPHY. THE SE END OF RUNWAY AND 3 HARDSTANDS ARE CLOUD-COVERED.**

**AIRCRAFT -- 28 POSSIBLE FISHBED, 4 PROBABLE FAGOT/FRESCO, 3 CRATE/COACH, 2 CAB, 1 COLT, 1 SMALL STRAIGHT-WING, 3 HOUND, 5 HARE, AND 5 POSSIBLE HARE.**

**UZUNDZHOVO AIRFIELD**

**BU 4158N 02535E**

**GCA SITE IS BETWEEN RUNWAY AND TAXIWAY. INNER AND OUTER MARKER BEACONS ARE AT WNW END OF THE RUNWAY, AND AN INNER MARKER BEACON IS AT THE ESE END OF THE RUNWAY.**

**AIRCRAFT -- 31 FARMER AND 3 FAGOT/FRESCO.**

**ZILISTEANCA AIRFIELD**

**RU 4513N 02658E**

**NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.**

**AIRCRAFT -- 20 FAGOT/FRESCO, 9 SMALL STRAIGHT-WING, AND 1 SMALL STRAIGHT-WING TAKING OFF.**

**BAKU/BINA AIRFIELD**

**UR 4027N 05004E**

**NO APPARENT CHANGE SINCE [REDACTED] APR-MAY 65 ON CLEAR, FAIR QUALITY PHOTOGRAPHY.**

**AIRCRAFT -- 9 COOT, 2 CRATE, AND 2 PROBABLE CAB.**

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**  
**MISSION 4018 28 MAY - 1 JUN 65**

**BAKU/KALA AIRFIELD**

**UR 4024N 05012E**

NO APPARENT CHANGE SINCE [REDACTED] APR-MAY 65 ON  
CLEAR, POOR QUALITY PHOTOGRAPHY.

AIRCRAFT -- 10 CAB, 2 CRATE, 9 COLT, AND 9 HOUND.

**FOKTO AIRFIELD**

**HU 4633N 01856E**

NO NEW CONSTRUCTION OR CHANGES OBSERVED ON FAIR QUALITY  
PHOTOGRAPHY.

AIRCRAFT -- 8 HOOK (1 WITHOUT ROTORS) AND 19 HOUND.

**TSULUKIDZE AIRFIELD**

**UR 4218N 04223E**

NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.

AIRCRAFT -- 2 DERELICT SMALL STRAIGHT-WING, 3 HOUND,  
AND 7 HARE.

**KAGAN AIRFIELD SOUTH**

**UR 3941N 06433E**

NO NEW CONSTRUCTION OR CHANGES OBSERVED ON GOOD QUALITY  
PHOTOGRAPHY.

A RADAR SITE LOCATED OFF THE SW END OF RUNWAY CONSISTS  
OF 3 VEHICLE REVETMENTS, 5 VAN TRUCKS, 2 KNIFE REST AND  
2 FISH NET RADARS.

AIRCRAFT -- 8D-- 7 HOOK (ONE WITHOUT ROTORS), 25 HOUND,  
AND 1 PROBABLE HOUND. 73D-- 7 HOOK (ONE WITHOUT  
ROTORS), 23 HOUND, AND 1 PROBABLE HOUND WITHOUT ROTORS.

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**BERAT/KUCOVE AIRFIELD**

**AL 4046N 01953E**

**NO NEW CONSTRUCTION OR CHANGES OBSERVED ON FAIR QUALITY  
OBLIQUE PHOTOGRAPHY.**

**AIRCRAFT -- 23 FAGOT/FRESCO.**

**PREZE AIRFIELD**

**AL 4125N 01944E**

**NO NEW CONSTRUCTION OR CHANGES IN FACILITIES OBSERVED  
ON GOOD QUALITY PHOTOGRAPHY.**

**AIRCRAFT -- 1 BEAGLE, 11 FARMER, 10 FAGOT/FRESCO, AND 1  
SMALL STRAIGHT-WING.**

**TIRANE AIRFIELD**

**AL 4120N 01947E**

**NO NEW CONSTRUCTION OR CHANGES OBSERVED ON FAIR QUALITY  
PHOTOGRAPHY.**

**AIRCRAFT -- 7 COLT, 7 SMALL STRAIGHT-WING, 2 HOUND, AND  
1 POSSIBLE HOUND.**

**OMSK AIRFIELD SOUTHWEST**

**UR 5457N 07319E**

**NO CHANGE IN FACILITIES OBSERVED ON HAZY, FAIR QUALITY  
PHOTOGRAPHY.**

**AIRCRAFT -- 59 BEAGLE, 6 PROBABLE BEAGLE, 2  
FAGOT/FRESCO, 2 CAT/CUB, 2 PROBABLE COOT, 2 CAMEL, 2  
CRATE, AND 3 CAB OBSERVED THROUGH HAZE.**

**MARINOVKA AIRFIELD**

**UR 4839N 04349E**

**A RADAR SITE LOCATED 2 NM SE OF RUNWAY CENTER CONSISTS  
OF 1 TALL KING, 1 BAR LOCK, 1 SPOON REST, 1 BIG MESH, 1  
STONE CAKE, 2 KNIFE REST AND AT LEAST 25 VANS.**

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**AIRCRAFT -- 23 FISHPOT (ONE WITHOUT TAIL ASSEMBLY), 16  
FAGOT/FRESCO, 1 COLT, AND 2 SMALL STRAIGHT-WING.**

**KAMYSHIN AIRFIELD NORTHWEST**

**UR 5012N 04513E**

**NO APPARENT CHANGE IN FACILITIES OBSERVED ON GOOD  
QUALITY, STEREO PHOTOGRAPHY.**

**AIRCRAFT -- 50 FISHBED AND 28 FAGOT/FRESCO.**

**SUKHAYA RECHKA AIRFIELD**

**UR 4301N 13132E**

**ONLY THE SW 20 PERCENT OF THE AIRFIELD IS COVERED ON  
PHOTOGRAPHY. NO CHANGES OBSERVED IN AREA COVERED.**

**AIRCRAFT -- 3 HOOK, 2 HOUND, AND 1 POSSIBLE HOUND.**

**OMSK AIRFIELD EAST**

**UR 5458N 07333E**

**SCATTERED CLOUDS AND HAZE PRECLUDE INTERPRETATION OF  
ANY CHANGES IN FACILITIES.**

**AIRCRAFT -- 1 BADGER/CAMEL, 5 SMALL PROBABLE DELTA  
WING, 3 FAGOT/FRESCO, AND 1 POSSIBLE FAGOT/FRESCO  
OBSERVED THROUGH HAZE.**

**SMTRUKLOVO AIRFIELD**

**BU 4342N 02604E**

**NO CHANGES OBSERVED ON GOOD QUALITY, CLEAR PHOTOGRAPHY.**

**AIRCRAFT -- NONE OBSERVED.**

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**H-3 AIRFIELD**

**IQ 3256N 03944E**

**SURFACING OF TAXIWAY AND PARKING APRONS APPEARS COMPLETE. NO OTHER CHANGES IN FACILITIES OBSERVED ON GOOD QUALITY, CLEAR, STEREO PHOTOGRAPHY.**

**AIRCRAFT -- NONE OBSERVED.**

**TARAKAN AIRFIELD**

**ID 0319N 11733E**

**3 NM NW OF TARAKAN.**

**4,350 X 100 FT NE/SW PREPARED SURFACE RUNWAY, SERVICEABLE. FACILITIES INCLUDE A GRADED EARTH PARKING AREA, AND 4 SUPPORT BUILDINGS AT THE NE END OF THE AIRFIELD.**

**AIRCRAFT -- NONE OBSERVED.**

**NARYAN-MAR AREA AIRFIELD**

**UR 6737N 05308E .BONUS 1**

**3.5 NM ESE OF NARYAN-MAR.**

**8,180 X 130 FT E/W PIERCED STEEL PLANK RUNWAY, SERVICEABLE, WITH A PARALLEL TAXIWAY AND 3 LINK TAXIWAYS. A PARKING APRON IS LOCATED AT EACH END OF THE PARALLEL TAXIWAY.**

**A TALL KING RADAR SITE IS LOCATED APPROXIMATELY 2 NM NORTH OF EASTERN END OF RUNWAY.**

**AIRCRAFT -- 9 FAGOT/FRESCO AND 1 CAB.**

**TOP SECRET CHESS RUFF**

**Nuclear  
Energy**



**Page Denied**

**Biological/  
Chemical  
Warfare**

**Page Denied**

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**Electronics/  
Communications**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**ELECTRONICS/COMMUNICATIONS**

**SERPUKHOV RADIO TELESCOPE FACILITY**

**UR 5449N 03737E**

SITE IS 70 PERCENT CLOUD COVERED. EASTERN PORTION OF E-W MILLS CROSS LEG AND SOUTHERN PORTION OF N-S LEG ARE OBSERVED, WITH NO APPARENT CHANGE SINCE JUN 64. THE PREVIOUSLY REPORTED RADIO TELESCOPE APPEARS IN THE CLOUD-FREE AREA, ALONG WITH ASSOCIATED SUPPORT BUILDINGS. THE TWO 8-DISH DEEP-SPACE TRACKING ANTENNAS AND THE MAIN SUPPORT FACILITY ARE NOT OBSERVED.

**SUKHUMI GUIDED MISSILE RADAR SITE**

**UR 4300N 04102E**

A 5-NM SEARCH AREA IS 25 PERCENT CLOUD COVERED. NO NEW GUIDED MISSILE RADAR SITES OBSERVED IN CLOUD-FREE AREAS.

**KAPUSTIN YAR POSS INSTRUMENTATION SITE**

**UR 4856N 04936E**

NO ELECTRONIC EQUIPMENT OR ASSOCIATED BUILDINGS OBSERVED AT THIS LOCATION. NO CONSTRUCTION ACTIVITY OBSERVED.

**ORENBURG TALL KING-AW RADAR FACILITY**

**UR 5143N 05458E**

FACILITY HAS BEEN EXPANDED SINCE SEP 64 TO INCLUDE A TALL KING RADAR AND ITS SUPPORT AND ANTENNA BUILDINGS 2,000 FT SW OF THE CONVENTIONAL AW AREA. THE AW AREA CONTAINS 5 RADAR MOUNDS (4 APPEAR OCCUPIED). TWO OF THE RADARS APPEAR TO BE RANGE AND AZIMUTH TYPES. AN ADDITIONAL 2-3 PROBABLE RADAR POSITIONS (NO RADARS OBSERVED), VEHICLE SHELTERS, AND SUPPORT BUILDINGS COMPLETE THE FACILITY.

**TOP SECRET CHESS RUFF**

## TOP SECRET CHESS RUFF

MISSION 4018 28 MAY - 1 JUN 65

KAPUSTIN YAR INSTRUMENTATION SITE

UR 4857N 04930E

THE MAIN SUPPORT AND OPERATIONAL AREA, WHICH IS SURROUNDED BY A FIRE BREAK, INCLUDES A SMALL INSTRUMENTATION DOME (RADAR-A-TYPE STRUCTURE) WITH A LARGE ADJACENT SUPPORT BUILDING, APPROXIMATELY 15 MEDIUM TO LARGE RECTANGULAR BUILDINGS, 1 LARGE L-SHAPED BUILDING, 2 BURIED STRUCTURES, A HOUSING AREA WITH 7 MULTI-UNIT BUILDINGS, 6 SINGLE/DOUBLE UNIT BUILDINGS, 5 SMALLER BUILDINGS, AND 2 LARGE ASSOCIATED BUILDINGS, AND APPROXIMATELY 100 VEHICLES/VANS. NUMEROUS SMALL STRUCTURES/UNIDENTIFIED PIECES OF EQUIPMENT ARE POSITIONED THROUGHOUT THE AREA.

A MOBILE COMMUNICATIONS SITE EAST OF THE MAIN OPERATIONAL AND SUPPORT AREA CONTAINS 6 ELECTRONICS VANS.

NORTH OF THE MAIN OPERATIONAL AND SUPPORT AREA IS A LIAISON-TYPE AIRSTRIP ORIENTED GENERALLY E/W, WITH 1 LIAISON AIRCRAFT OBSERVED JUST SOUTH OF THE STRIP.

NORTH OF THE AIRSTRIP, IS A SEPARATELY SECURED PROBABLE INSTRUMENTATION SITE CONTAINING 1 SQUARE C-SHAPED BUILDING, 1 VAN, 1 OCCUPIED PROBABLE INSTRUMENTATION POSITION, AND 3 SMALL PIECES OF UNIDENTIFIED EQUIPMENT.

KAPUSTIN YAR INSTRUMENTATION SITE

UR 4840N 04926E

SITE CONTAINS A SINGLE L-SHAPED BUILDING, 1 E-SHAPED BUILDING, 3 ELECTRONIC VANS IMMEDIATELY WEST OF THE E-SHAPED BUILDING, 3 PROBABLE GENERATORS JUST SOUTH OF THE VANS, 1 ELECTRONIC VAN EAST OF THE L-SHAPED BUILDING WITH A POSSIBLE TOWER ON THE EAST SIDE OF THE VAN, SEVERAL OTHER MISCELLANEOUS VANS, AND SMALL BUILDINGS SCATTERED THROUGHOUT THE SITE.

TYURATAM RADIO STATION 2

UR 4536N 06316E

NO APPARENT CHANGE SINCE SEP 64.

TOP SECRET CHESS RUFF

## TOP SECRET CHESS RUFF

MISSION 4018 28 MAY - 1 JUN 65

TYURATAM RADIO STATION 3

UR 4538N 06320E

PROBABLE TRANSMITTER STATION LOCATED IN THE EASTERN PORTION OF THE SUPPORT BASE CONSISTS OF A PROBABLE TRANSMITTER BUILDING, COOLING POND, AND A PROBABLE MICROWAVE TOWER.

TYURATAM INSTRUMENTATION SITE

UR 5017N 07145E

THE NE SECTION OF THE SITE IS APPARENTLY A HOUSING AND SUPPORT AREA WITH 1 LARGE AND APPROXIMATELY 15 MEDIUM AND SMALL BUILDINGS, AND 1 MEDIUM-SIZED BURIED STRUCTURE. THE SW SECTION OF THE SITE IS THE OPERATIONS AREA AND CONTAINS 1 LARGE FLAT-ROOFED PROBABLE CONTROL/OPERATIONS BUILDING WITH AN UNIDENTIFIED STRUCTURE ON THE NE CORNER OF THE ROOF. ASSOCIATED WITH THIS BUILDING IS AN INSTRUMENTATION DOME AND SUPPORTING STRUCTURE (RADAR-A). ALSO IN THIS AREA IS A PROBABLE COMMUNICATIONS SITE CONSISTING OF 3 VANS AND 2 OR 3 GENERATORS, 2 OTHER FAIRLY LARGE BUILDINGS, AND APPROXIMATELY 5 OTHER SMALL MISCELLANEOUS STRUCTURES. AT LEAST 2 PROBABLE RADAR/INSTRUMENTATION POSITIONS ARE OBSERVED IN THE OPERATIONS AREA.

A PROBABLE INTERFEROMETER CIRCLE IS LOCATED ON THE NE SIDE OF THE SUPPORT AREA. NO ANTENNAS ARE VISIBLE, HOWEVER, THE ANTENNA SITES AND THE ENTRANCE TO THE UNDERGROUND CENTRAL CONTROL BUILDING, AND A SECOND UNDERGROUND ENTRANCE NEARER TO THE PERIMETER OF THE CIRCLE ON THE SOUTHWESTERN EDGE, ARE EVIDENT.

A SMALL DIRT AIRSTRIP (ORIENTED APPROXIMATELY NW/SE) IS LOCATED APPROXIMATELY 4,600 FT SE OF THE OPERATIONS/SUPPORT AREA. ON THE SW SIDE OF THE LANDING STRIP IS A SEPARATELY SECURED AREA, WHICH IS APPARENTLY A COMMUNICATIONS/INSTRUMENTATION SITE, CONSISTING OF 1 SQUARE, FLAT-ROOFED PROBABLE OPERATIONS BUILDING, 1 OTHER SMALLER, FLAT-ROOFED BUILDING, AND 5 OR 6 VANS. NO ANTENNAS VISIBLE.

THIS IS THE FIRST TIME INSTRUMENTATION EQUIPMENT HAS BEEN IDENTIFIED AT THIS FACILITY.

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**DALNYAYA TALL KING-AIR WARNING RADAR FAC UR 4553N 14205E**

SITE CONTAINS 1 TALL KING ANTENNA WITH ITS ASSOCIATED ANTENNA BUILDING, A BAR LOCK RADAR LOCATED 1 NM NORTH OF THE TALL KING, AND 1 UNIDENTIFIED RADAR LOCATED 0.5 NM NORTH OF THE TALL KING. APPROXIMATELY 25 SUPPORT STRUCTURES ARE LOCATED THROUGHOUT THE AREA.

**MIDDENDORFA TALL KING FACILITY**

**UR 7605N 06640E**

NO TALL KING OBSERVED IN SEARCH AREA. HAZE AND SNOW PRECLUDE NEGATION.

**GIZHIGA TALL KING-AW RADAR FACILITY**

**UR 6150N 16031E**

ONE NM NW OF GIZHIGA AIRFIELD. SIX-SIDED SECURED AREA CONTAINS 1 TALL KING RADAR, 1 CONTROL BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND SEVERAL ASSOCIATED UNIDENTIFIED STRUCTURES. A BAR LOCK RADAR AND A PROBABLE STONE CAKE RADAR ARE LOCATED ON TOP OF AN EARTH MOUND AT 61-50N 160-30E, APPROXIMATELY 2 NM SW OF GIZHIGA AIRFIELD.

**SMIDOVICH TALL KING FACILITY**

**UR 7456N 05625E**

NO TALL KING OBSERVED IN 5-NM SEARCH AREA. HAZE PRECLUDES NEGATION.

**GORNYY BALKLEY H-SHAPED RADAR TRACK FAC**

**UR 4933N 04502E**

FACILITY IS COMPRISED OF A FENCED H-SHAPED RADAR OPERATIONS AREA AND A FENCED SUPPORT AREA.

OPERATIONS AREA CONTAINS 1 LARGE RADAR MOUND, 3 SMALLER RADAR MOUNDS AND A CENTRALLY LOCATED RECTANGULAR

**TOP SECRET CHESS RUFF**



## TOP SECRET CHESS RUFF

MISSION 4018 28 MAY - 1 JUN 65

25X1

25X1

REKETMENT. THE LARGE RADAR MOUND CONTAINS A TALL, SLENDER UNIDENTIFIED ANTENNA, EITHER SIDE NET OR A NEW TYPE ANTENNA. TWO OF THE SMALLER MOUNDS CONTAIN HEIGHT FINDERS AND 1 IS UNOCCUPIED. THE REKETMENT CONTAINS 4 RADAR EQUIPMENT VANS. A ROAD LEADS FROM THE CENTER OF THE OPERATIONS AREA TO 3 PADS CONTAINING 4 COMMUNICATIONS VANS.

THE SUPPORT AREA CONTAINS A LARGE DIESEL ELECTRIC POWER/HEAT BUILDING WITH A TALL STACK AND A FUEL OIL STORAGE AREA, A LARGE DOUBLY AND SEPERATELY FENCED CONTROL BUILDING WITH A VHF TYPE ANTENNA ON THE ROOF, A RADAR MAINTENANCE BUILDING, A PROBABLE VEHICLE STORAGE BUILDING, 2 LARGE BUILDINGS OF UNIDENTIFIED FUNCTION, AND SEVERAL SMALLER BUILDINGS. MOST OF THE BUILDINGS ARE PERMANENT-TYPE, OF MASONRY CONSTRUCTION.

25X1

KAMYSHIN H-SHAPED RADAR TRACKING FACILITY UR 5003N 04516E

6 NM SW OF KAMYSHIN.

25X1

H-CONFIGURED RADAR FACILITY CONSISTS OF A DOUBLE-FENCED OPERATIONS AREA CONTAINING 8 RADAR MOUNDS (1 OCCUPIED BY A PROBABLE BACK NET). THE REMAINDER OF THE RADARS THAT WERE PRESENT ON MOUNDS ON [REDACTED] JAN 65 HAVE BEEN REMOVED. COMMUNICATIONS AREA CONTAINS 5 ELECTRONICS VANS AND 2 TOWER MOUNTED PROBABLE COMMUNICATIONS ANTENNAS, PROBABLY OF A NEW TYPE. FACILITY ALSO CONTAINS 8 VEHICLE/CONTROL REKETMENTS AND 3 BUILDINGS. A FENCED SUPPORT AREA CONTAINING 25 BUILDINGS IS 3,300 FT TO THE SE.

25X1

25X1

YAKUTSK TALL KING-AW RADAR FACILITY

UR 6207N 12941E

NO APPARENT CHANGE SINCE [REDACTED]

MAR 65.

25X1

25X1

KENA SKLAD TALL KING RADAR SITE

UR 8059N 05817E

SITE NOT COVERED OR CLOUD-COVERED ON 3 PASSES. NO TALL KING RADAR SITES OBSERVED ON CLEAR AREAS OF FRAMES

47

25X1

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

LISTED FOR PASSES 26 AND 75, HOWEVER, INSUFFICIENT MAP  
DETAIL PRECLUDED FIRM CORRELATION OF PHOTOGRAPHY WITH  
MAP COORDINATES.

**NAKHICHERAN TALL KING-AW FACILITY**

**UR 3921N 04521E**

**8.5 NM NNW OF NAKHICHERAN.**

SINGLY SECURED SITE CONTAINS 1 TALL KING ANTENNA, 1  
ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 PROBABLE  
COMMUNICATIONS VAN, AND 1 UNIDENTIFIED OBJECT.

AN AIR WARNING RADAR SITE LOCATED 0.5 NM NORTH OF THE  
TALL KING SITE, CONSISTS OF 1 BAR LOCK, 3 UNIDENTIFIED  
RADARS, 15 COMMUNICATIONS VANS, APPROXIMATELY 6  
HORIZONTAL STORAGE TANKS, 1 LARGE AND 45 SMALL SUPPORT  
STRUCTURES, AND 1 SINGLY SECURED STORAGE AREA WITH 8  
STORAGE AND 1 SUPPORT BUILDINGS.

**NIZHNIYE KRESTY TALL KING-AW RADAR FAC**

**UR 6843N 16121E**

0.5 NM NE OF NIZHNIYE KRESTY AIRFIELD.  
FACILITY CONTAINS A TALL KING ANTENNA ON A CONTROL  
BUILDING, A SUPPORT BUILDING, A GENERATOR BUILDING, AND  
FUEL OIL STORAGE.

AN ASSOCIATED RADAR SITE APPROXIMATELY .03 NM NNE OF  
NIZHNIYE KRESTY AIRFIELD CONTAINS A RADAR CREW QUARTERS  
AND 1 OR 2 ANTENNAS INCLUDING 1 BAR LOCK RADAR.

A SMALL HF COMMUNICATIONS SITE IS ON THE NORTHERN EDGE  
OF NIZHNIYE KRESTY AND ANOTHER SMALL HF COMMUNICATIONS  
SITE IS 2 NM EAST OF NIZHNIYE KRESTY.

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

**MISSION 4018 28 MAY - 1 JUN 65**

**POLUDSTROV KHARA-TUMUS TALL KING FACILITY UR 7344N 11056E**

**NO TALL KING SITE OBSERVED IN AREA COVERED.  
PHOTOGRAPHY IS EXTREMELY LIGHT AND THE SHORELINE BARELY  
DISCERNIBLE.**

**VOLOCHANKA TALL KING-AW RADAR FACILITY UR 7058N 09434E**

**NO APPARENT CHANGE SINCE MAR 65.**

**ASTRAKHAN TALL KING-AD HQ FACILITY UR 4624N 04756E BONUS 1**

**6 NM NW OF ASTRAKHAN.**

**SINGLY SECURED SITE CONSISTS OF 1 TALL KING ANTENNA, 1  
ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR  
BUILDING, AND 1 MAINTENANCE BUILDING.**

**THE AIR WARNING RADAR SITE IS LOCATED 2.5 NM WEST OF  
THE TALL KING SITE AND IMMEDIATELY WEST OF THE  
ASTRAKHAN NORTHWEST AIRFIELD AT 46-23N 047-52E. THE  
SITE CONSISTS OF 1 BAR LOCK, 3 UNIDENTIFIED ANTENNAS,  
18 COMMUNICATION VANS, AND 1 SUPPORT BUILDING.**

**YUZHNO-SAKHALINSK ELECTRONIC FACILITY UR 4648N 14243E BONUS 2**

**9 NM SOUTH OF YUZHNO-SAKHALINSK.**

**DOUBLY SECURED AREA CONSISTS OF AN INTERFEROMETER-TYPE  
TRACKING DEVICE AND A LARGE HF RHOMBIC COMMUNICATIONS  
FACILITY CONTAINING A CENTRAL CONTROL BUILDING, SEVERAL  
DAY-NIGHT RHOMBIC ANTENNAS, AND APPROXIMATELY 15  
SUPPORT BUILDINGS.**

**TOP SECRET CHESS RUFF**

**Military  
Activity**

TOP SECRET CHESS RUFF

MISSION 4018 28 MAY - 1 JUN 65

MILITARY ACTIVITY

FU-CHING ARMY BARRACKS NORTHWEST SHAN-TIEN CH 2548N 11918E

ENTIRE AREA COVERED ON GOOD, CLEAR PHOTOGRAPHY.

NO APPARENT CHANGE IN FACILITIES SINCE  
MAR 65. NO VEHICLES OR PIECES OF EQUIPMENT OR EVIDENCE  
OF TROOP OR SUPPLY BUILDUP OBSERVED.

SAN-TU-AO MILITARY BARRACKS

CH 2638N 11942E

ENTIRE AREA COVERED ON CLEAR, FAIR QUALITY PHOTOGRAPHY.  
THREE SMALL AREAS OBSERVED IN DEFENSE OF THE SAM-TU-AO  
NAVAL BASE.

AREA ON SW TIP OF SAN-TU-AO (ISLAND), IMMEDIATELY WEST  
OF THE NAVAL BASE AREA CONTAINS 11 BUILDINGS. AN  
OCCUPIED 4-GUN LIGHT AAA SITE IS LOCATED APPROXIMATELY  
0.2 NM NORTH. AREA JUST NORTH OF THE NAVAL BASE IN THE  
SW PORTION OF THE ISLAND CONTAINS 8 BUILDINGS AND AN  
OCCUPIED LIGHT 6-GUN AAA SITE. AREA ON SOUTHEASTERN  
TIP OF THE ISLAND CONTAINS AT LEAST 4 BUILDINGS AND A  
POSSIBLE AAA/CD SITE (OCCUPANCY UNDETERMINED).

HSIA-KUAN BARRACKS & HQ 42 INFANTRY DIV CH 2536N 10012E

APPROXIMATELY 10 PERCENT OF SOUTHERN PORTION COVERED ON  
GOOD CLOUD-FREE PHOTOGRAPHY. APPROXIMATELY 50 CARGO  
TRUCKS OBSERVED.

CHIANG-TZU ARMY BARRACKS

TI 2855N 08936E

POSSIBLE MILITARY AREA COVERED ON GOOD CLEAR  
PHOTOGRAPHY CONSISTS OF APPROXIMATELY 9 SEPARATE AREAS  
(6 WALLED) WITH 44 BARRACKS, 11 ADMINISTRATION  
BUILDINGS, 25 STORAGE/SUPPORT BUILDINGS AND 4 PROBABLE  
CARGO TRUCKS.

A PROBABLE MILITARY AREA 4.5 NM NW OF CHIANG-TZU

TOP SECRET CHESS RUFF